An ISO 9001 Company

CHICAGO

Bulletin CPB-103

Design 53 Pressure Blower

Design 53 Pressure Blower

More Versatile, More Applications

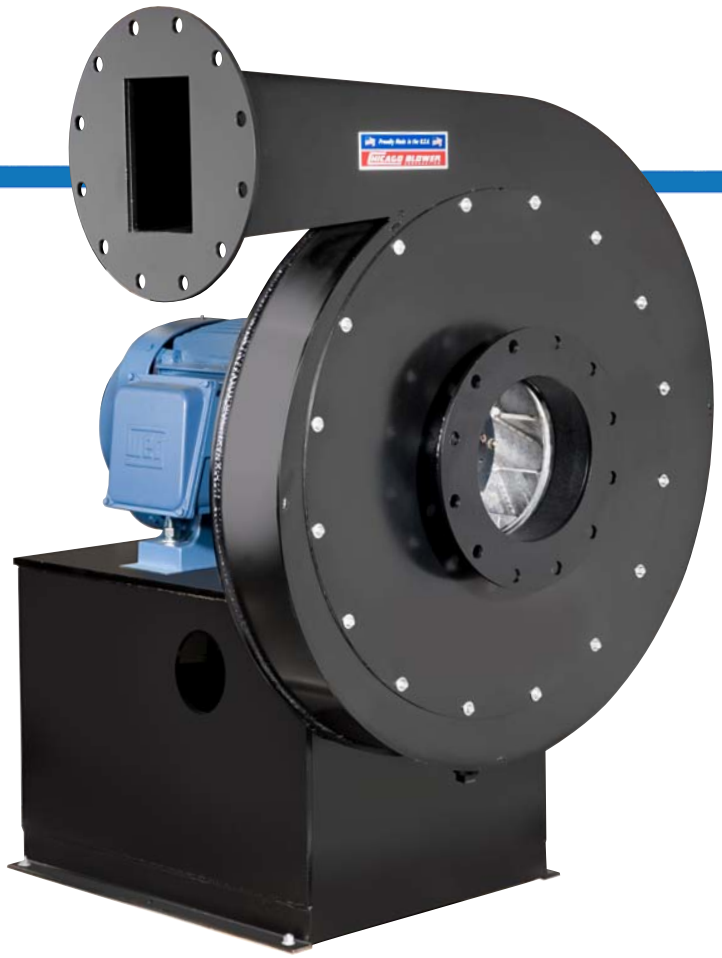
Pressures to 91" sp
Volumes to 18,000 cfm

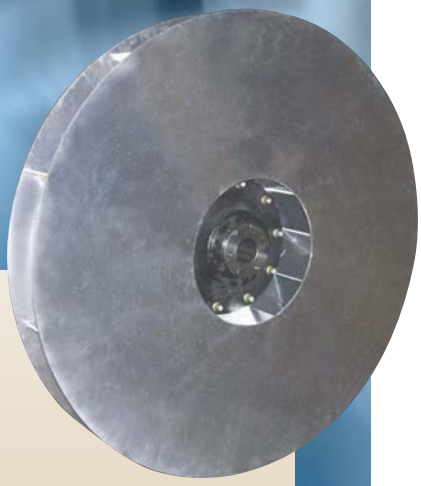
Chicago's Design 53 single stage pressure blowers are ideal for combustion air, pneumatic conveying systems, fluid bed aeration, cooling, drying systems, and recommended for use in various high pressure applications.

With pressures to 91" wg and volumes to 18,000 cfm, the range of the Design 53 has been widened to include a selection of 70 wheel/housing combinations. Four arrangements and eight discharge positions are available for most models. The new larger sizes, designated N, P, Q, and R are available as Arrangement 1, 4, 8 and 9, with eight discharge positions at 45° increments. Although direct drive is specified for most applications, belt drive is available.

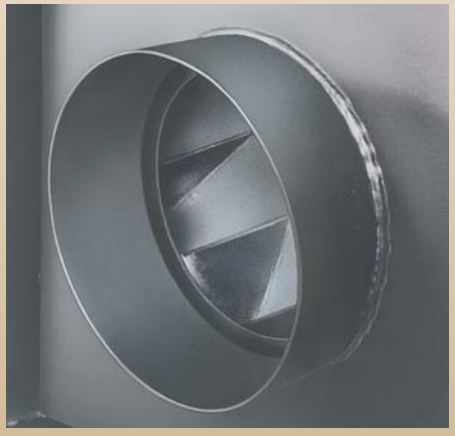
With such a wide range of performance there is a standard Chicago pressure blower model to meet every requirement without lengthy lead times or custom pricing. Chicago Blower representatives located throughout North America and around the globe welcome the opportunity to evaluate your application. Put Chicago Blower's experience and "Industrial Quality" fan building expertise to work for you.

Chicago Blower Corporation is certified for ISO 9001.

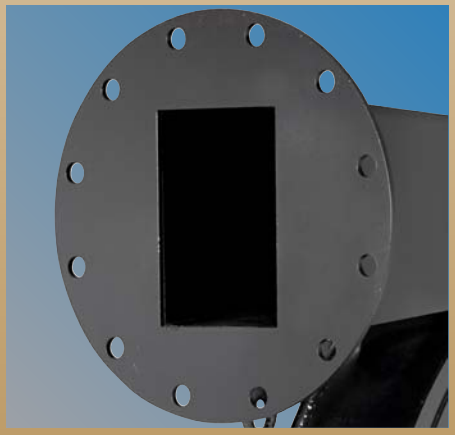




Standard Design Features



Slip Fit Inlet



Flanged Outlet

Rugged Housings

Housings and pedestals stand up to the rigors of strenuous duty, delivering smooth vibration-free performance. Housings are fabricated of continuously welded heavy gauge steel, and rigidly stiffened. Wheel access is provided by the removable inlet cover plate.

High Strength Wheels

Chicago Pressure Blowers incorporate a fabricated high-strength aluminum alloy or carbon steel wheel to handle substantially increased tip speeds at temperatures to 650° F. Wheels are gas metal arc welded using precision fixtures in lieu of riveting. Taperlock bushings secure the wheel to the shaft.

Shafts and Bearings

Engineered shafts have a critical speed at least 1.35 times maximum rpm. Bearings are either industrial duty ball type or roller in cast iron pillow block.

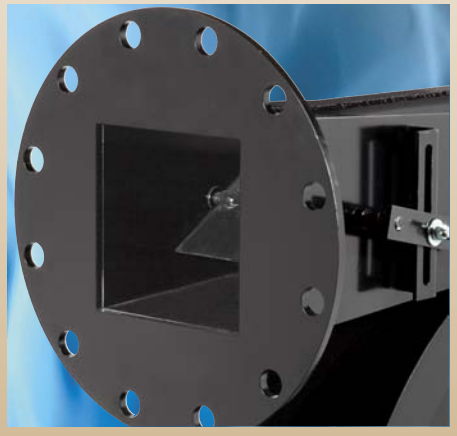
Slip Fit Inlet

The standard slip-fit inlet accommodates customer field mounted ductwork or flexible connectors. Optional flanged inlets and venturi inlets are available to meet installation requirements.

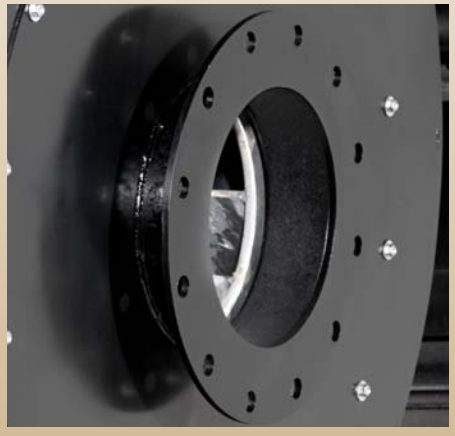
Flanged Outlets

Standard flanged outlets with ANSI 125/150 pipe flange bolt pattern and hole size readily connect to flanged piping. Flanges are continuoiusly welded to the housing.

Optional Accessories



Outlet Volume Control



Flanged Inlet

Inlet Filter

Venturi Inlet

Lug Type Butterfly Valve

Safety Guards

Outlet Volume Control

The control damper is built directly into the discharge. Manual control with locking quadrant or automatic operation with pneumatic or electric actuator.

Flanged Inlet

Flanges have ANSI 125/150 pipe flange bolt pattern and bolt circle dimensions to readily connect to flanged piping. Flanges are continuously welded to the inlet.

Venturi Inlet

Venturi inlets assure optimum performance by providing smooth airflow into the wheel. Venturi Inlets are required on open inlet blowers to meet catalog performance.

Inlet Filters

Both paper and reusable wire mesh filters consist of the element, a base mounted to the fan inlet, and a lid secured to the fan with wing nut. Filter silencers and rain hoods available.

Butterfly Valves

Butterfly blast gate valves fine tune performance or vary the flow. Lug type mounts to the flanged inlet/outlet. Wafer type mounts between two matching flanges for manual or modulating control.

Outlet Slip Tube

Slip-fit tubes bolted to the outlet flange are standard Schedule 40 pipe. Slip tubes dimensioned to fit flexible hose are also available.

Flex-Sleeve

Rubber flexible connector, helps isolate the fan from system vibration. Sleeve is backed with a corded rubber cover held with stainless steel clamps.

Vibration Pads

Vibration transmission is reduced by mounting low density cork pads between the fan pedestal and the floor.

Inlet Guard

Designed to prevent intrusion on open inlets, a guard fabricated of concentric rings is mounted on the inletSafety

Safety Guards/Extended Fittings

Guards surround shaft, bearings and coupling. Included extended grease fittings facilitate bearing lubrication.

Housing Drain

A 1/1/2" NPT half coupling is welded at the lowest point of the scroll. Matching drain plug is also available.

Discharge Elbows

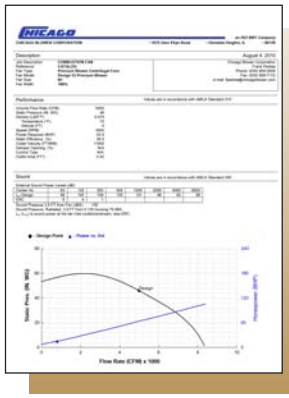
Elbows allow the discharge flange to clear the motor pedestal on some downblast and top angular down discharges. Models are noted on the Dimension pages.

Shaft Seals

Seals reduce leakage where the shaft passes through the housing. Seals are not considered gas tight.

Special Coatings

To meet certain applications, several special paints and corrosion resistant coatings are available.



Refer to Chicago Blower's Selection program, fan.net, for performance, fan curves and sound data.

Contact your local Chicago Blower sales engineer for software and assistance.

Temperature / Altitude Correction

When the pressure blower will not be handling standard air, corrections will be necessary. Apply the factors from this table.

Example:

Assume a requirement of 900 CFM and 25" SP to operate at 140°F and 1500' altitude. From the table we have a factor of 1.20. (A) Multiply the pressure by the factor: 25" x 1.20 = 30" SP. (B) Select a fan for 900 CFM. The graphs on the following pages indicate a Size E2 blower with 6" outlet requiring 6.4 BHP. (C) Divide the BHP by the factor: 6.4 ÷ 1.20 = 5.33 BHP. The selection would read: Size E2 for 900 CFM, 25" SP, 140°F, at 1500' altitude, and a corrected BHP of 5.33.

AIR TEMP (F°)	ALTITUDE (feet) with BAROMETRIC PRESSURE (HG)									
	0´ 29.92	500´ 29.38	1000´ 28.86	1500´ 28.33	2000´ 27.82	2500´ 27.31	3000´ 26.82	3500´ 26.32	4000´ 25.84	5000´ 24.90
-40	.79	.81	.82	.84	.85	.87	.88	.90	.92	.95
-15	.84	.86	.87	.89	.90	.92	.94	.95	.97	1.01
0	.87	.88	.90	.92	.93	.95	.97	.99	1.00	1.04
40	.94	.96	.96	1.00	1.01	1.03	1.05	1.07	1.09	1.13
70	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.20
80	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.22
100	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.27
120	1.09	1.11	1.13	1.16	1.18	1.20	1.22	1.24	1.27	1.31
140	1.13	1.15	1.17	1.20	1.22	1.24	1.26	1.29	1.31	1.36
160	1.17	1.19	1.21	1.24	1.26	1.28	1.31	1.33	1.35	1.41
180	1.21	1.23	1.25	1.28	1.30	1.32	1.35	1.37	1.40	1.45
200	1.25	1.27	1.29	1.32	1.34	1.36	1.39	1.42	1.44	1.50

Correction factors for temperature (F) and altitude (above sea level):
standard air = .075 lbs. per cubic foot at sea level, 29.92" barometric pressure and 70° F

Blower Selection

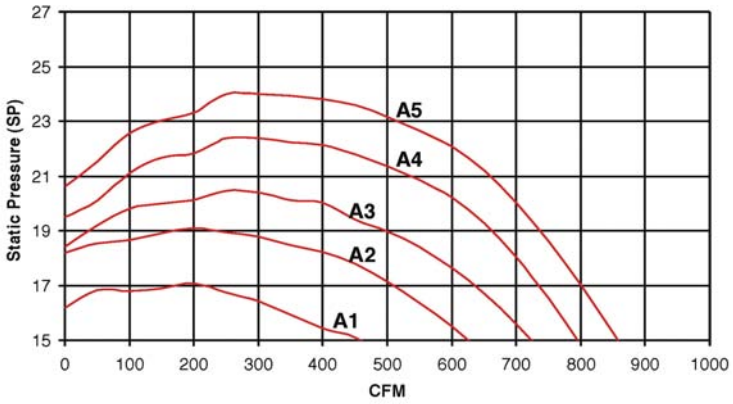
The performance curves shown on the following pages illustrate the D/53 Pressure Blower's operational range. Red curves indicate volume vs. pressure, the blue curves indicate volume vs. brake horsepower. Refer to *fan.net* selection software when a specific performance point with greater detail is required. Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

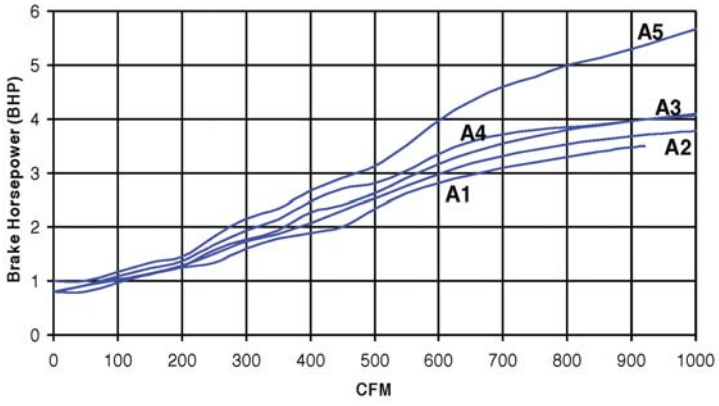
Design 53 Pressure Blower Performance

4"Outlet

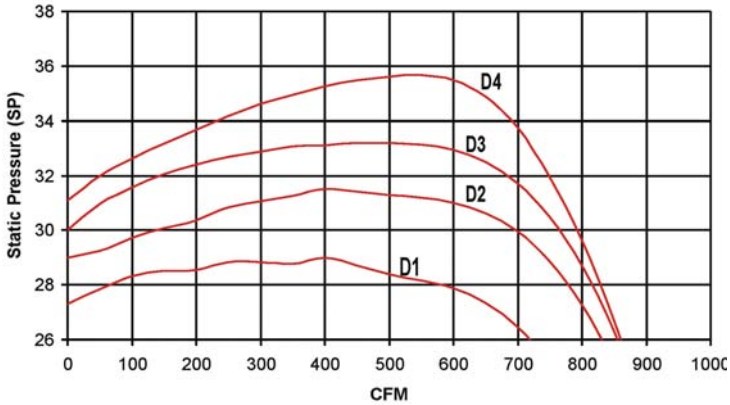
3500 RPM
Outlet Area - .09 Ft.²

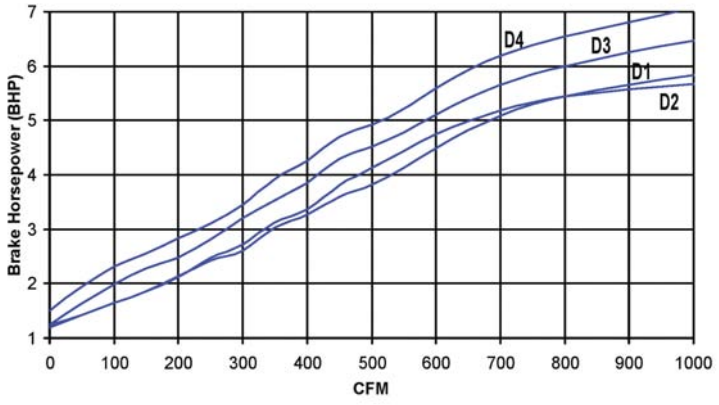
Size A





Size D





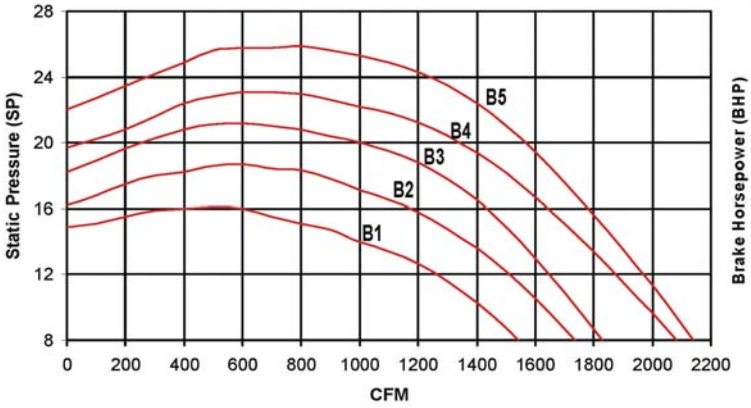
Design 53 Pressure Blower Performance

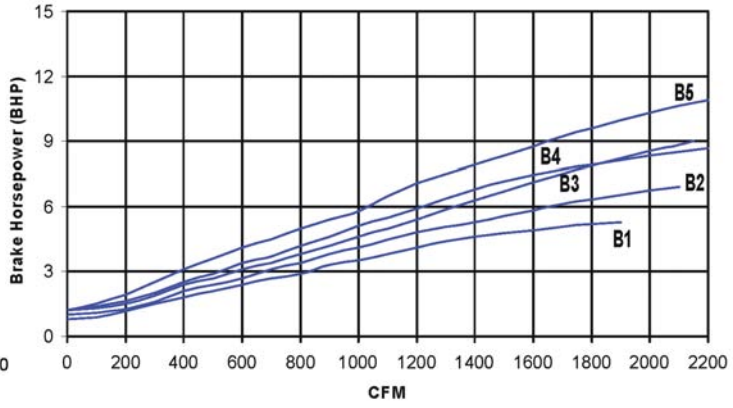
Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

6"Outlet

3500 RPM
Outlet Area - .20 Ft.²

Size B





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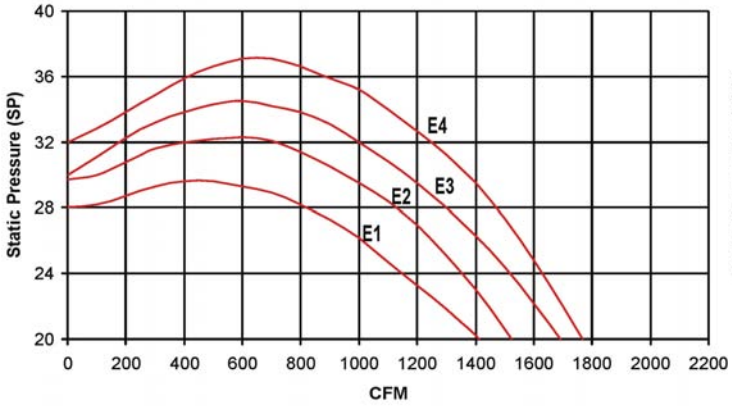
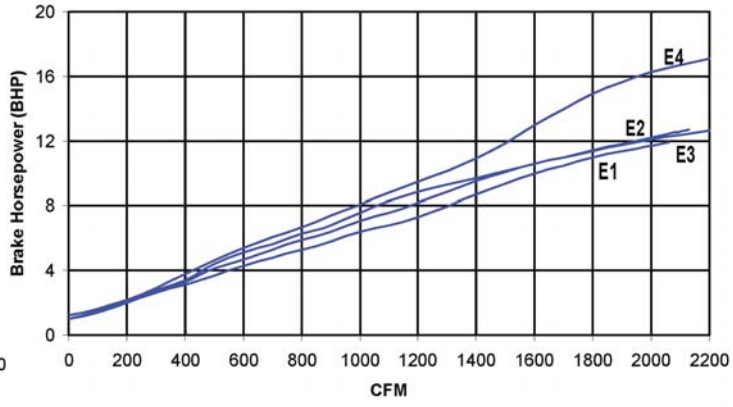
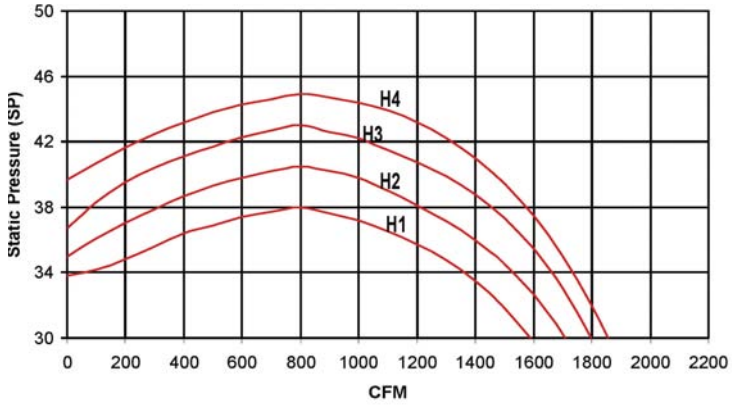
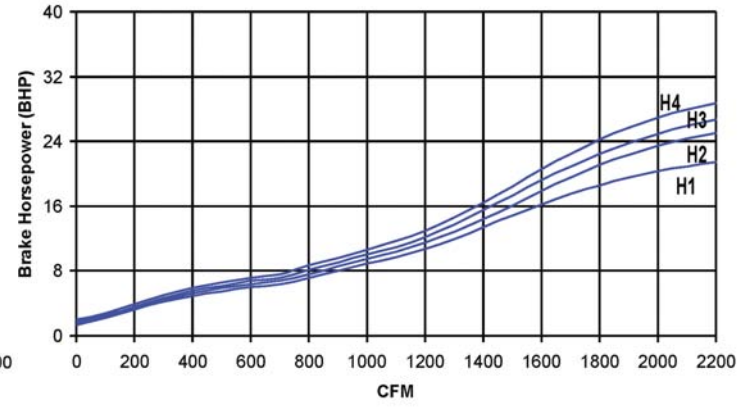




Size H





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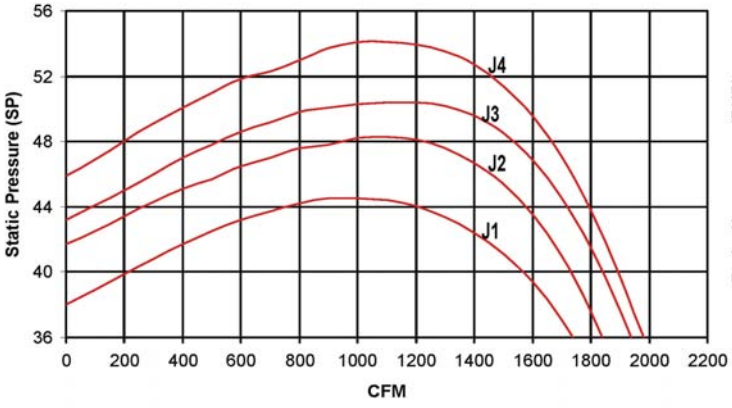
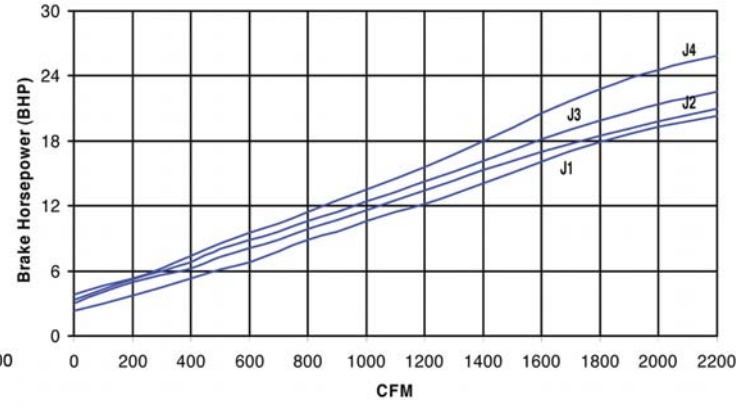




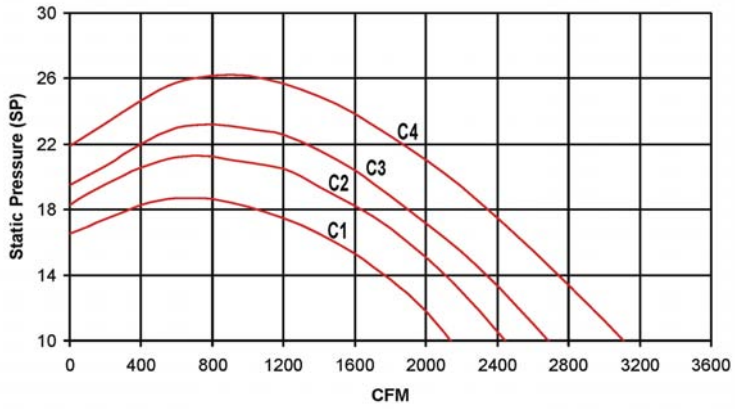
Design 53 Pressure Blower Performance

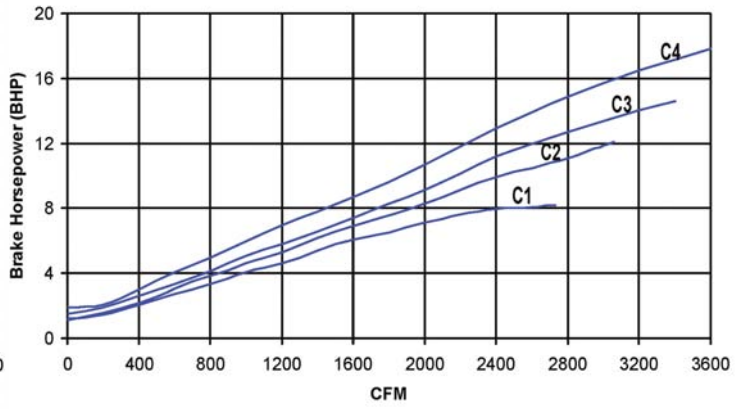
Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

8"Outlet

3500 RPM
Outlet Area - .35 Ft.²

Size C





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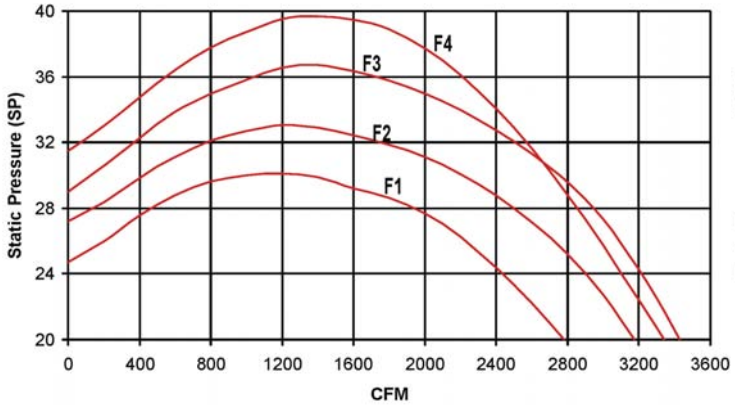
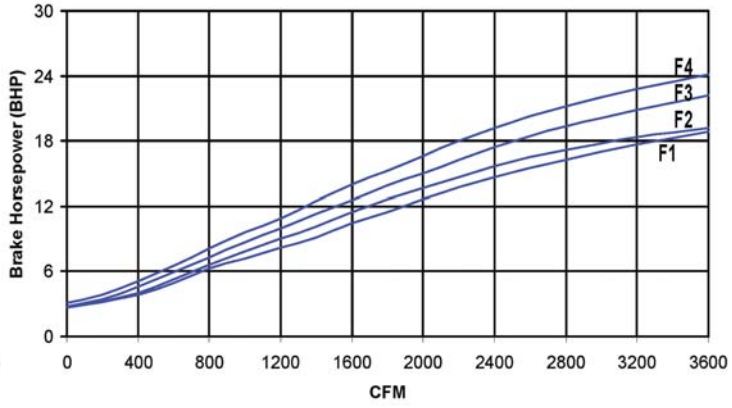
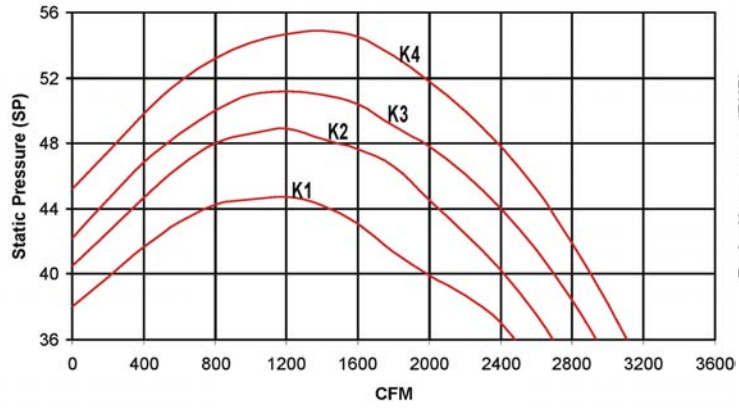
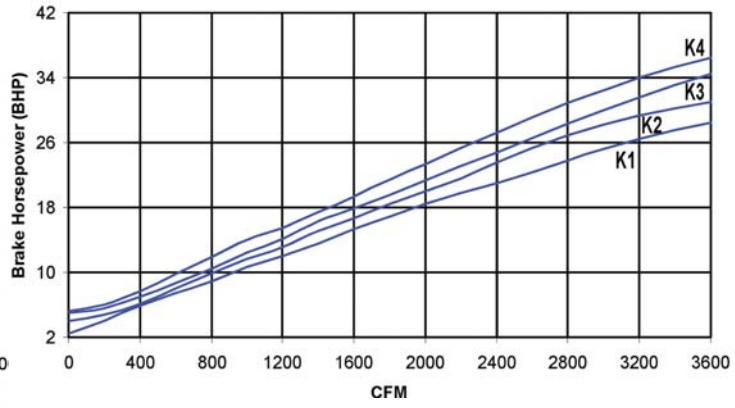




Size K





More Blowers For More Applications

Pressure Air Fans

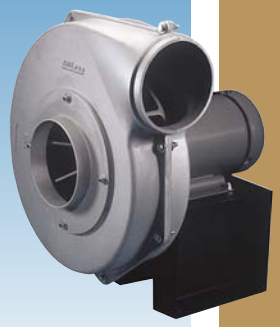
Heavy radial wheels are recommended for pollution control applications, such as continuous duty of primary air on burners, pulverizers, fluidizers and scrubbers. Options include abrasion and corrosion resistant materials. Variable widths and diameters provide exact performance.

Wheels to 100"
Volumes to 440,000 CFM
Pressures to 108" wg

Cast Aluminum Pressure Blowers

Design 38 blowers ideal for fume/dust control, forced air drying and cooling. Match multiple wheels/inlets to eight housing sizes to meet required performance. Temperature to 200°F.

Sizes: 800 to 1829
Volumes to 5000 CFM
Pressures: to 20" wg



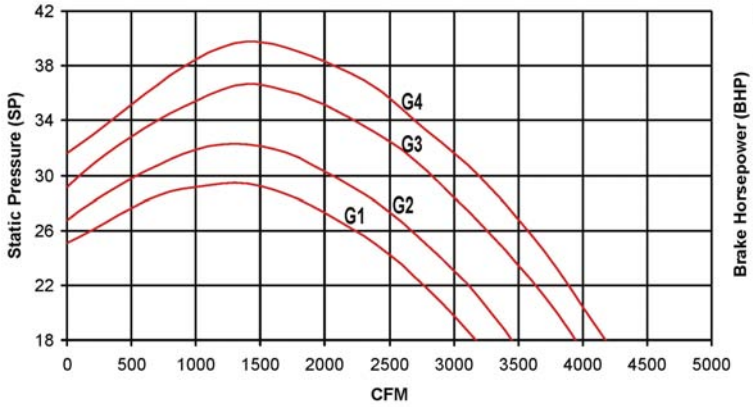
Design 53 Pressure Blower Performance

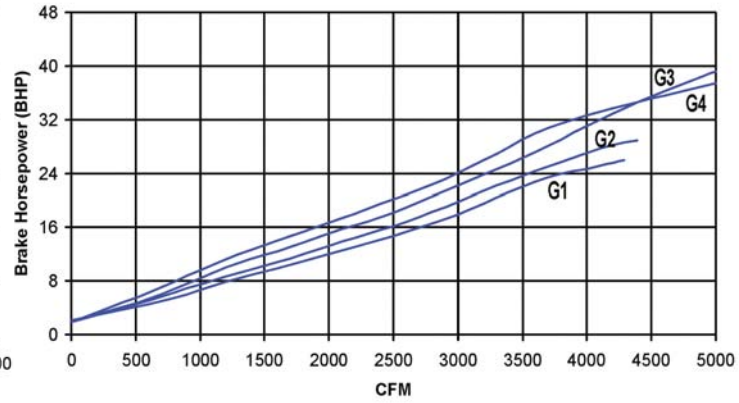
Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

10"Outlet

3550 RPM
Outlet Area - .55 Ft.²

Size G





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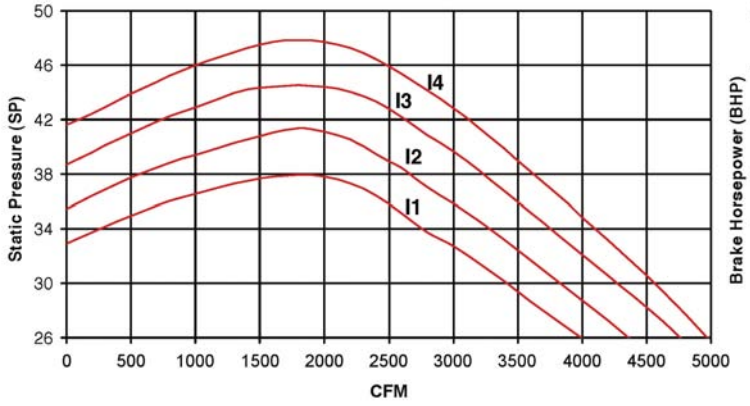

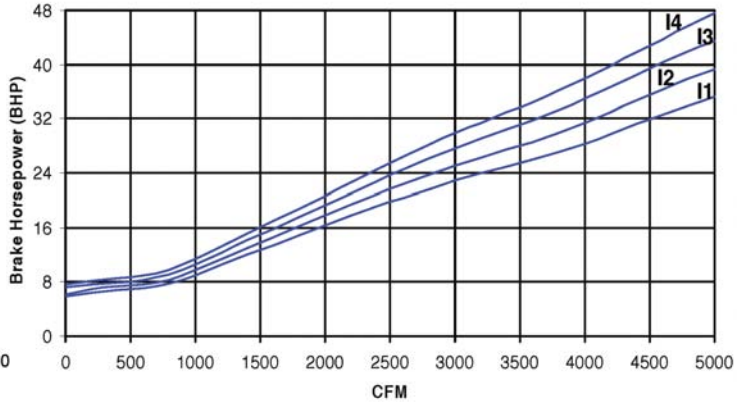

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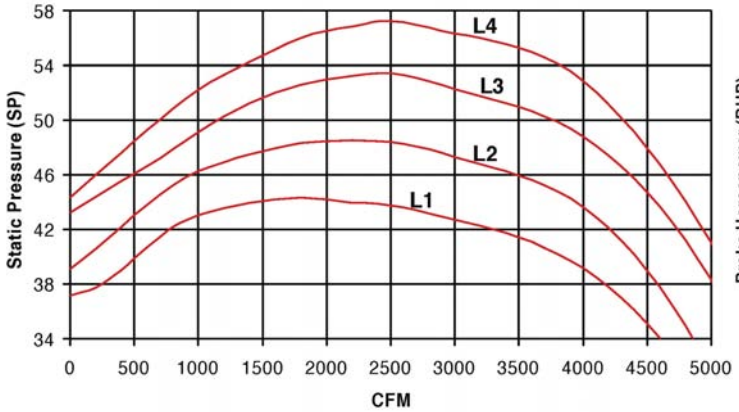

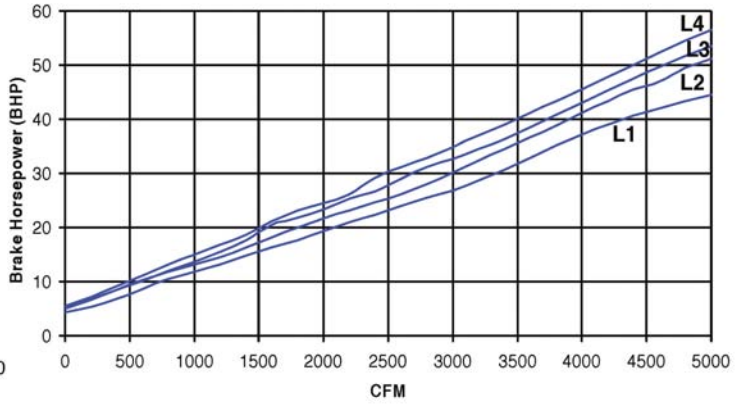

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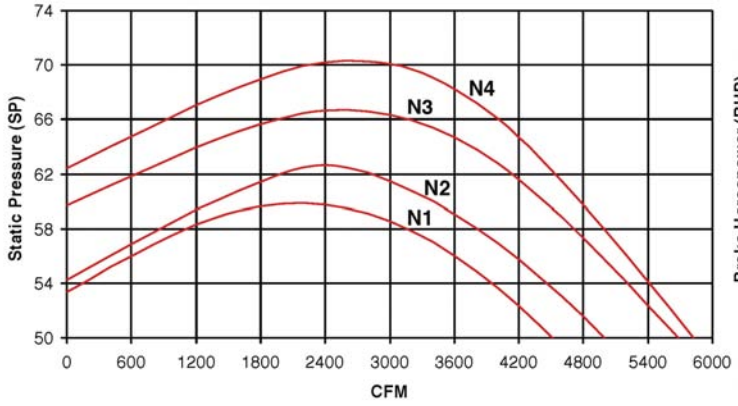
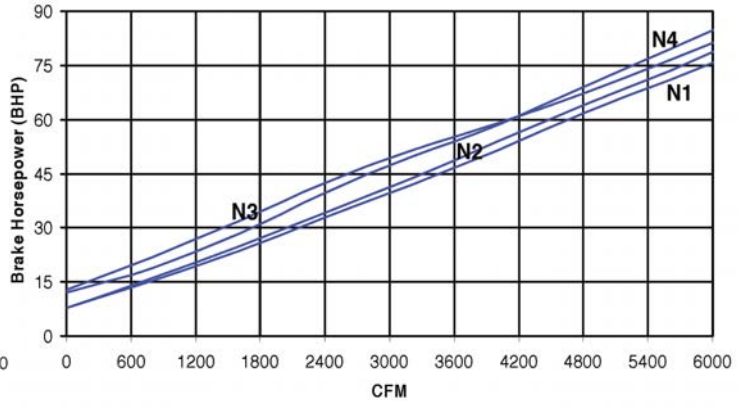




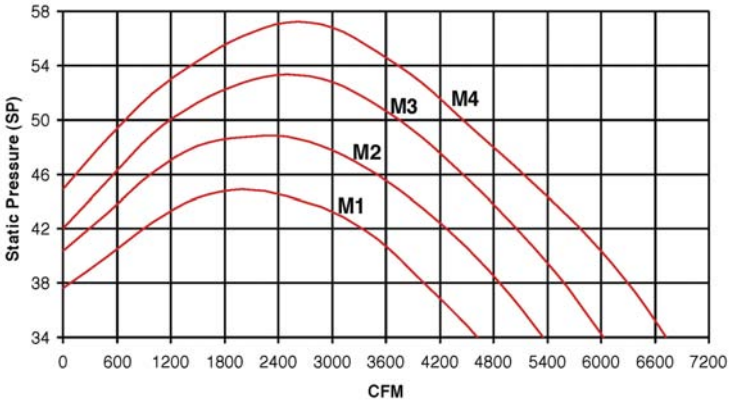
Design 53 Pressure Blower Performance

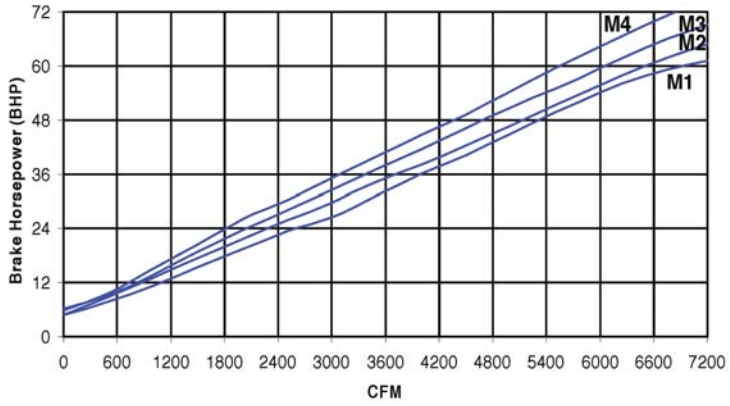
Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

12"Outlet

3550 RPM
Outlet Area - .79 Ft.²

Size M





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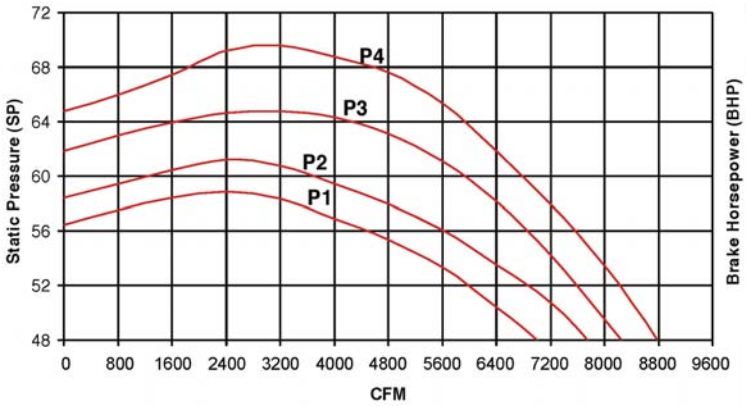

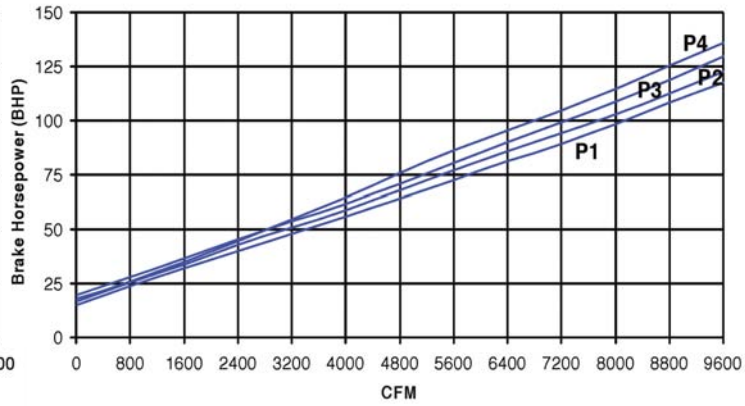

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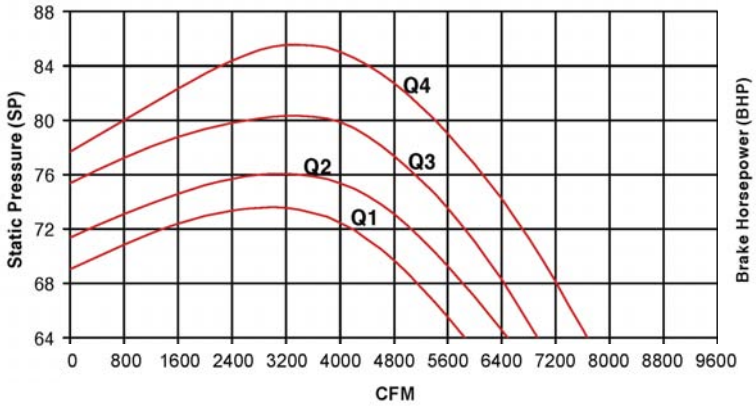
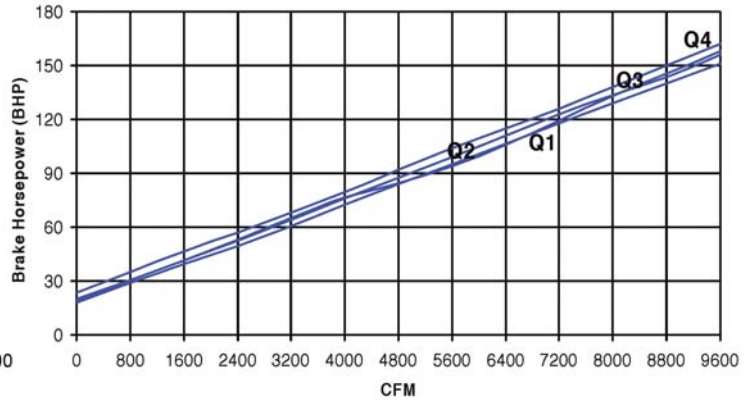


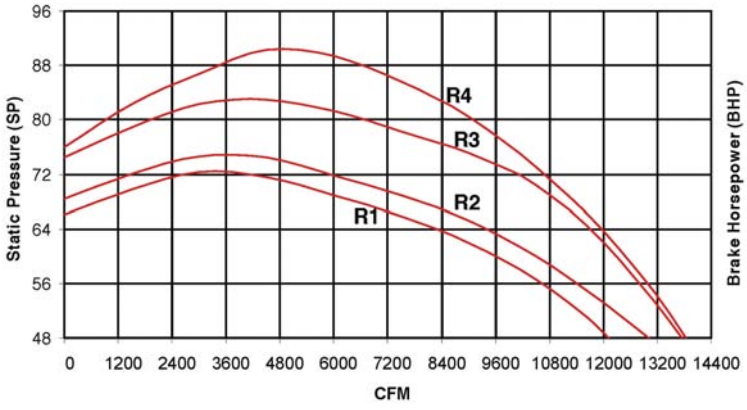


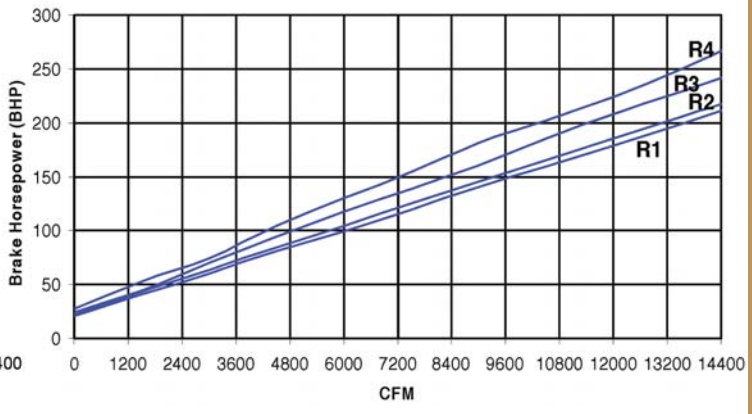
14"Outlet

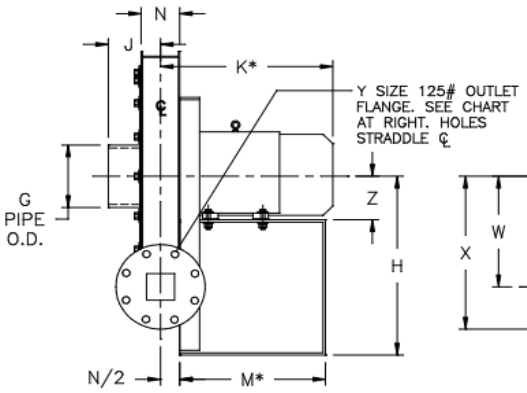
3550 RPM
Outlet Area - .00 Ft.²

Operating range is stable over the entire curve from 0 flow (block off) to wide open volume.

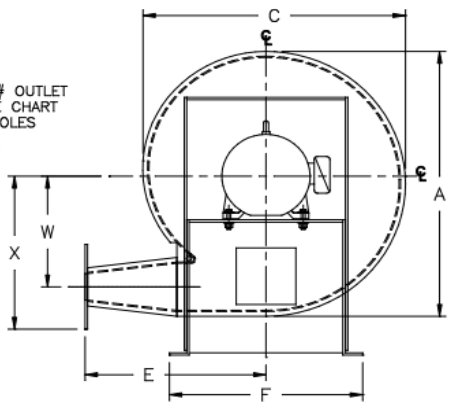
Size R



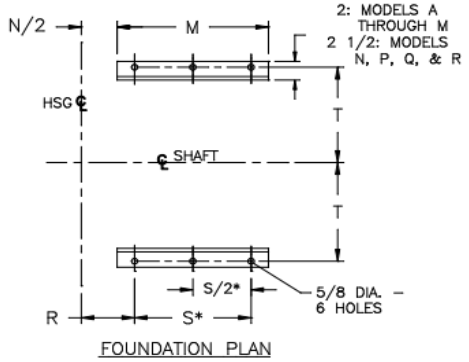




FRONT ELEVATION



SIDE ELEVATION (DRIVE SIDE)



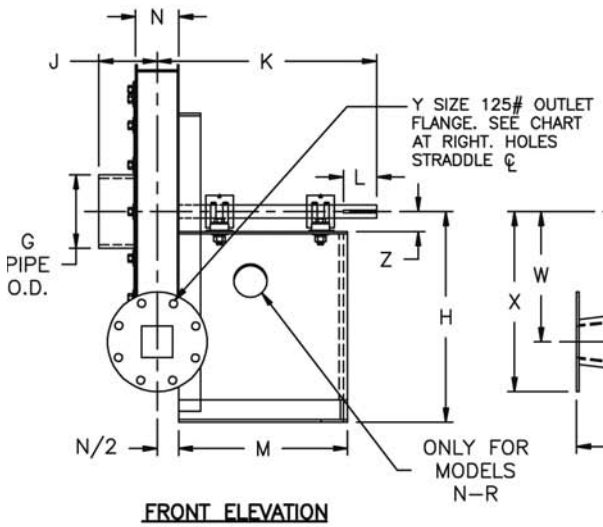
FOUNDATION PLAN

ANSI STD. 125# OUTLET FLANGE DATA						
PIPE SIZE "Y"	4	6	8	10	12	14
B.C. DIA.	7 1/2	9 1/2	11 3/4	14 1/4	17	18 3/4
HOLE DIA.	3/4	7/8	7/8	1	1	1 1/8
NO. OF HOLES	8	8	8	12	12	12
PIPE O.D.	4 1/2	6 5/8	8 5/8	10 3/4	12 3/4	14
FLANGE O.D.	9	11	13 1/2	16	19	21

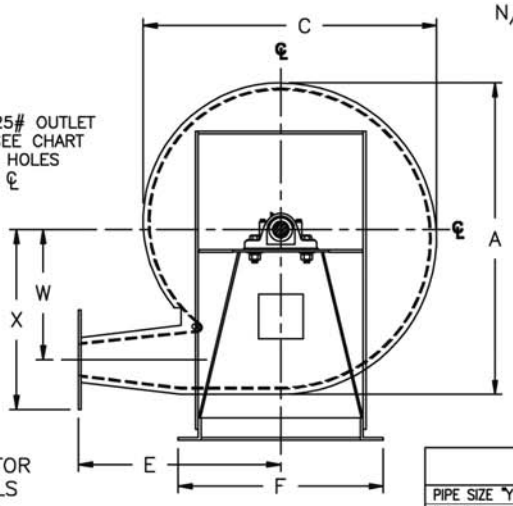
*K, M, & S DIMENSIONS BASED ON THE LARGER OF THE TWO MOTOR FRAMES LISTED ON A LINE

DIMENSIONS – INCHES

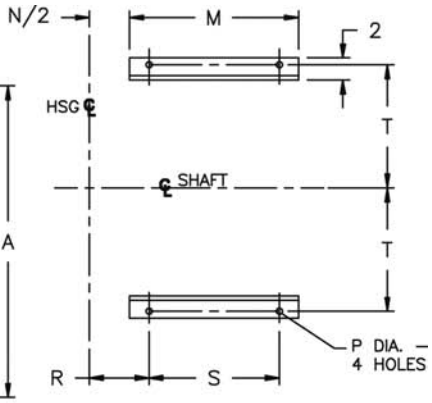
FAN MODEL	FRAME	MOTOR FRAME METRIC	A	C	E	F	G	H	J	K*	M*	N	N/2	R	S*	S/2*	T	W	X	Y	Z	FAN MODEL
A	143T, 145T	90S, 90L	28 1/8	26 1/2	18 1/4	19 1/2	6 5/8	17 3/4	5 5/16	13 3/8	12	6 1/4	3 1/8	4 9/16	8 5/8	4 5/16	8 7/8	11 3/4	17 1/4	6	3 5/8	A
	182T, 184T	112S, 112M						19		14 5/8											4 5/8	
	213T, 215T	132S, 132M						19 3/4		15 7/8											5 3/8	
	254T, 256T	160M, 160L						20 3/4		17 7/8											6 3/8	
										20 7/8											7 1/8	
B	143T, 145T	90S, 90L					8 5/8	17 3/4	6 7/16	14 5/8	12				14 1/8	7 1/16			18 1/2	8	3 5/8	B
	182T, 184T	112S, 112M						19		15 7/8											4 5/8	
	213T, 215T	132S, 132M						19 3/4		19											5 3/8	
	254T, 256T	160M, 160L						20 3/4		23 7/8											6 3/8	
C	182T, 184T	112S, 112M						19		15 7/8											4 5/8	C
	213T, 215T	132S, 132M						19 3/4		19											5 3/8	
	254T, 256T	160M, 160L						20 3/4		22 1/8											6 3/8	
D	143T, 145T	90S, 90L						23		13 3/8	17 1/2										3 5/8	D
	182T, 184T	112S, 112M						24		14 5/8											4 5/8	
	213T, 215T	132S, 132M						24 3/4		17 7/8											5 3/8	
E	143T, 145T	90S, 90L					6 5/8	23	5 5/16	13 3/8		3 7/8	1 15/16	3 3/8					19 3/8	4	3 5/8	E
	182T, 184T	112S, 112M						24		14 5/8											4 5/8	
	213T, 215T	132S, 132M			17 3/4			24 3/4		17 7/8									20 3/8	6	5 3/8	
	254T, 256T	160M, 160L						26		20 7/8	22 3/4			3 5/16	19 1/2	9 3/4					6 3/8	
F	143T, 145T	90S, 90L	34	32		23 1/2		23	6 7/16	14 5/8	17 1/2	6 1/4	3 1/8	4 9/16	14 1/8	7 1/16	10 7/8	14 7/8	21 5/8	8	3 5/8	F
	182T, 184T	112S, 112M						24		15 7/8											4 5/8	
	213T, 215T	132S, 132M						24 3/4		19											5 3/8	
	254T, 256T	160M, 160L						26		23 7/8	22 3/4			4 1/2	19 1/2	9 3/4					6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		26											7 1/8	
G	143T, 145T	90S, 90L			21 3/4		8 5/8	23		14 5/8	17 1/2			4 9/16	14 1/8	7 1/16			22 7/8	10	3 5/8	G
	182T, 184T	112S, 112M						24		15 7/8											4 5/8	
	213T, 215T	132S, 132M						24 3/4		19											5 3/8	
	254T, 256T	160M, 160L						26		23 7/8	22 3/4			4 1/2	19 1/2	9 3/4					6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		26											7 1/8	
H	143T, 145T	90S, 90L			17 3/4			23	5 13/16	14	17 1/2	5	2 1/2	3 15/16	14 1/8	7 1/16			21 7/16	6	3 5/8	H
	182T, 184T	112S, 112M						24		15 1/4											4 5/8	
	213T, 215T	132S, 132M						24 3/4		18 3/8											5 3/8	
	254T, 256T	160M, 160L						26		23 1/4	22 3/4			3 7/8	19 1/2	9 3/4					6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		25 3/8											7 1/8	
I	143T, 145T	90S, 90L	36 3/4	34 5/8	21 3/4	23 1/2		23	6 15/16	15 1/8	17 1/2	7 1/4	3 5/8	5 1/16	14 1/8	7 1/16	10 7/8	15 15/16	23 15/16	10	3 5/8	I
	182T, 184T	112S, 112M						24		16 3/8											4 5/8	
	213T, 215T	132S, 132M						24 3/4		19 1/2											5 3/8	
	254T, 256T	160M, 160L						26		24 3/8											6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		26 1/2	22 3/4			5	19 1/2	9 3/4					7 1/8	
	324TS, 326TS	200M, 200L						27 3/4		28 3/4											8 1/8	
J	143T, 145T	90S, 90M			19		8 5/8	23	5 13/16	14	17 1/2	5	2 1/2	3 15/16	14 1/8	7 1/16	10 7/8	17 5/8	23 1/8	6	3 5/8	J
	182T, 184T	112S, 112M						24		15 1/4											4 5/8	
	213T, 215T	132S, 132M						24 3/4		18 3/8											5 3/8	
	254T, 256T	160M, 160L						26		23 1/4	22 3/4			3 7/8	19 1/2	9 3/4					6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		25 3/8											7 1/8	
K	143T, 145T	90S, 90M	39 7/8	37 1/2		23 1/2		23		14	17 1/2			3 15/16	14 1/8	7 1/16			24 3/8	8	3 5/8	K
	182T, 184T	112S, 112M						24		15 1/4											4 5/8	
	213T, 215T	132S, 132M						24 3/4		18 3/8											5 3/8	
	254T, 256T	160M, 160L						26		23 1/4	22 3/4			3 7/8	19 1/2	9 3/4					6 3/8	
	284TS, 286TS	180M, 180L						26 3/4		25 3/8											7 1/8	
L	254T, 256T	160M, 160L			23		10 3/4	26	6 15/16	24 3/8	26 3/4	7 1/4	3 5/8	5	23 1/2	11 3/4			25 5/8	10	6 3/8	L
	284TS	180M						28 1/4		25											7 1/8	
	286TS	180L						29 1/4		26 1/2											7 1/8	
	324TS, 326TS	200M, 200L						30 1/4		28 3/4											8 1/8	
	364TS, 365TS	225M, 225L						31 3/8		31 3/8											9 1/8	
M	254T, 256T	160M, 160L						26		24 3/8											6 3/8	
	284TS, 286TS	180M, 180L						28 1/4		26 1/2											7 1/8	
	324TS, 326TS	200M, 200L						29 1/4		28 3/4											8 1/8	
	364TS, 365TS	225M, 225L						30 1/4		31 3/8											9 1/8	
N	254T, 256T	160M, 160L	46 7/16	42	23 3/4	24 1/2	12 3/4	33 5/8	6 11/16	25 1/8	17 5/8	6 3/4	3 3/8	4 3/4	14 7/8	7 7/16	11 3/8	19 3/4	27 3/4	10	6 3/8	N
	284TS, 286TS	180M, 180L						34 3/8		27 1/4	19 1/8				16 3/8	8 3/16					7 1/8	
	324TS, 326TS	200M, 200L						35 3/8		30	20				17 1/4	8 5/8					8 1/8	
	364TS, 365TS	225M, 225L						34 1/8		31 5/8	21 5/8			4 5/8	19 1/8	9 9/16					9 1/8	
	404TS, 405TS	250S, 250M				29 1/2		35 1/8		38 1/8	24				21 1/2	10 3/4	13 7/8				10 1/8	
P	254T, 256T	160M, 160L	47 3/8			24 1/2		33 5/8	7 11/16	26 1/8	17 5/8	8 3/4	4 3/8	5 3/4	14 7/8	7 7/16	11 3/8		29 1/4	12	6 3/8	P
	284TS, 286TS	180M, 180L						34 3/8		28 1/4	19 1/8				16 3/8	8 3/16					7 1/8	
	324TS, 326TS	200M, 200L						35 3/8		31	20				17 1/4	8 5/8					8 1/8	
	364TS, 365TS	225M, 225L						34 1/8		32 5/8	21 5/8			5 5/8	19 1/8	9 9/16					9 1/8	
	404TS, 405TS	250S, 250M				29 1/2		35 1/8		39 1/8	24				21 1/2	10 3/4	13 7/8				10 1/8	
Q	254T, 256T	160M, 160L	50 3/8	46	28 1/4	24 1/2		33 5/8	7 1/16	25 1/2	17 5/8	7 1/2	3 3/4	5 1/8	14 7/8	7 7/16	11 3/8	21 3/4	31 1/4	12	6 3/8	Q
	284TS, 286TS	180M, 180L						34 3/8		27 5/8	19 1/8				16 3/8	8 3/16					7 1/8	
	324TS, 326TS	200M, 200L						35 3/8		30 3/8	20				17 1/4	8 5/8					8 1/8	
	364TS, 365TS	225M, 225L						34 1/8		32	21 5/8			5	19 1/8	9 9/16					9 1/8	
	404TS, 405TS	250S, 250M				29 1/2		35 1/8		38 1/2	24				21 1/2	10 3/4					10 1/8	
	444TS, 445TS	280S, 280M						34 1/8		44 3/4	27 3/4				25 1/4	12 5/8	13 7/8				11 1/8	
	447TS, 449TS	–								50	37 1/4				34 3/4	17 3/8					11 1/8	
R	254T, 256T	160M, 160L	52 3/8			24 1/2	14	33 5/8	8 7/16	26 9/16	17 5/8	9 5/8	4 13/16	6 3/16	14 7/8	7 7/16	11 3/8		32 1/4	14	6 3/8	R
	284TS, 286TS	180M, 180L						34 3/8		28 11/16	19 1/8				16 3/8	8 3/16					7 1/8	
	324TS, 326TS	200M, 200L						35 3/8		31 7/16	20				17 1/4	8 5/8					8 1/8	
	364TS, 365TS	225M, 225L						34 1/8		33 1/16	21 5/8			6 1/16	19 1/8	9 9/16					9 1/8	
	404TS, 405TS	250S, 250M				29 1/2		35 1/8		39 9/16	24				21 1/2	10 3/4	13 7/8				10 1/8	
	444TS, 445TS	280S, 280M						34 1/8		45 13/16	27 3/4				25 1/4	12 5/8					11 1/8	
	447TS, 449TS	–								51 1/16	37 1/4				34 3/4	17 3/8					11 1/8	



FRONT ELEVATION



SIDE ELEVATION
(DRIVE SIDE)



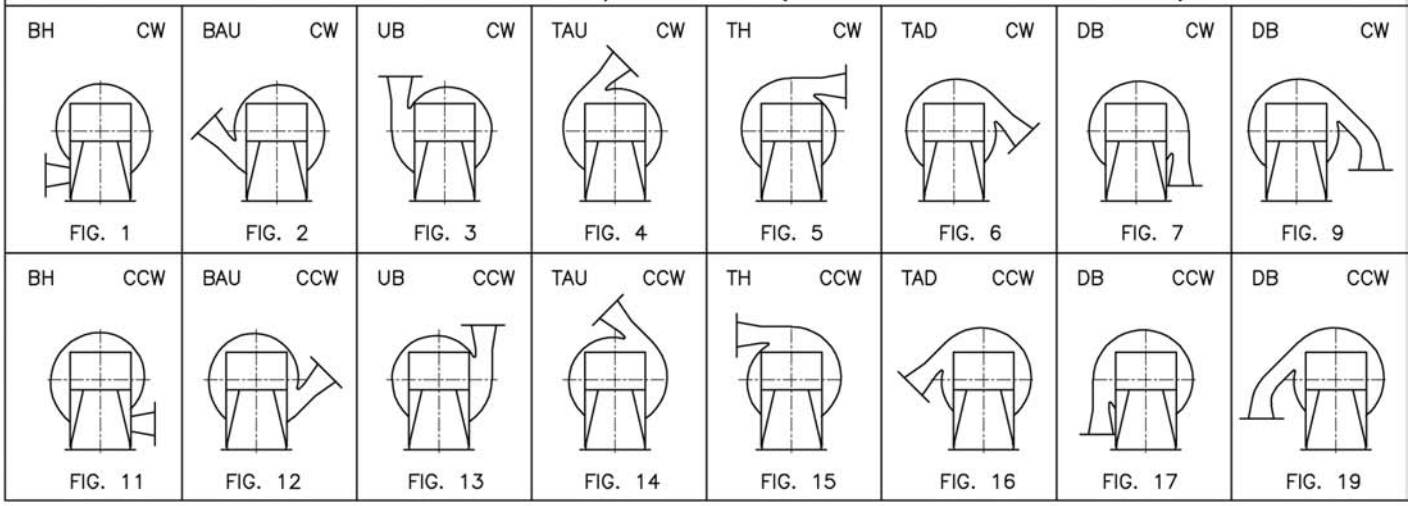
FOUNDATION PLAN

ANSI STD. 125# OUTLET FLANGE DATA						
PIPE SIZE "Y"	4	6	8	10	12	14
B.C. DIA.	7 1/2	9 1/2	11 3/4	14 1/4	17	18 3/4
HOLE DIA.	3/4	7/8	7/8	1	1	1 1/8
NO. OF HOLES	8	8	8	12	12	12
PIPE O.D.	4 1/2	6 5/8	8 5/8	10 3/4	12 3/4	14
FLANGE O.D.	9	11	13 1/2	16	19	21

DIMENSIONS – INCHES

FAN MODEL	SHAFT DIA.	KEYWAY	A	C	E	F	G	H	J	K	L	M	N	N/2	P	R	S	T	W	X	Y	Z	FAN MODEL
A	1 3/16	1/4 x 1/8					6 5/8		5 5/16	19 13/16	3		3 7/8	1 15/16		3 11/16				16 1/4	4	1 13/16	A
B			28 1/8	26 1/2	18 1/4	18 1/2		19										8 3/8	11 3/4				B
C	1 7/16	3/8 x 3/16					8 5/8		6 7/16	22 1/2	4 1/2		6 1/4	3 1/8		4 7/8				17 1/4	6	2	C
D																				18 1/2	8		D
E			34	32	17 3/4		6 5/8	23 1/2	5 5/16	23 5/16			3 7/8	1 15/16		3 11/16				19 3/8	4	2	E
F	2 3/16	1/2 x 1/4																	14 7/8	20 3/8	6		F
G					21 3/4		8 5/8	24 1/8	6 7/16	23 3/16	5	15 1/4	6 1/4	3 1/8	5/8	4 7/8	11 3/4	10 7/8		21 5/8	8	2 5/8	G
H	1 7/16	3/8 x 3/16	36 3/4	34 5/8	17 3/4	23 1/2		28 1/4	5 13/16	23 7/8	4 1/2		5	2 1/2		4 1/4				22 7/8	10		H
I	1 15/16	1/2 x 1/4			21 3/4			29 1/2	6 15/16	25 5/16	6		7 3/8	3 11/16		5 3/8			15 15/16	21 7/16	6	2	I
J																				23 15/16	10	3 1/4	J
K	2 3/16	1/2 x 1/4	39 7/8	37 1/2	19			28 7/8	5 13/16	22 9/16	5		5	2 1/2		4 1/4				23 1/8	6	2 5/8	J
L																			17 5/8	24 3/8	8		K
M					23		10 3/4	29 3/8	6 15/16	25 11/16	5 1/2		7 1/4	3 5/8		5 3/8		11 1/8		25 5/8	10	3 1/8	L
N	3 3/16	3/4 x 3/8	46 7/16	42	23 3/4	28		31 1/4	6 11/16	32 9/16	7	21 3/4	6 3/4	3 3/8		4 5/8	19 1/4	13 3/8	19 3/4	27 1/8	12		M
P	3 7/16	7/8 x 7/16	47 3/8				12 3/4		7 11/16	34	8		8 3/4	4 3/8	3/4	5 5/8				27 3/4	10	4 11/16	N
Q			50 3/8	46	28 1/4			34 1/2	7 1/16	36 3/16		23 3/4	7 1/2	3 3/4		5	21 1/4		21 3/4	29 1/4	12		P
R			52 3/8				14		8 7/16	37 1/4			9 5/8	4 13/16		6 1/16				31 1/4	12	5 1/4	Q
																				32 1/4	14		R

POSITIONS OF DISCHARGE / ROTATION (AS VIEWED FROM DRIVE SIDE)



FOR DB DISCHARGE: ONLY MODELS H AND J FOLLOW FIG. 7 OR 17. ALL OTHER MODELS FOLLOW FIG. 9 OR 19.

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